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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/925,827	08/09/2001	Alexey Dimitrievich Zinin	112025-0453	4668

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EXAMINER

JONES, PRENELL P

ART UNIT PAPER NUMBER

2667

DATE MAILED: 09/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/925,827

Applicant(s)

ZININ, ALEXEY DIMITRIEVICH

Examiner

Prenell P. Jones

Art Unit

2667

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-50 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 21-50 is/are allowed.
- 6) ☒ Claim(s) 1,5,7,10,14 and 16 is/are rejected.
- 7) ☒ Claim(s) 2-4,6,8,9,11-13,15 and 17-20 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Response to Arguments

1. Applicant's arguments with respect to claims 1-50 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 5, 7, 10, 14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li et al in view of Cheng et al and Akhtar.

Regarding claims 1, 5, 7, 10, 14 and 16, Li discloses (Fig. 5 & 6, col. 4, line 47 thru col. 5, line 6, col. 9, line 35 thru col. 10, line 25) a routing communication system whereby the architecture includes a plurality of communicating neighboring routers, wherein a router of the plurality of routers reboots and sends "hello" messages to neighboring routers, "hello" messages should be sent upon boot up to minimize delays, router unicast "hello" message to neighbors to trigger a neighbor to establish neighbor ship/adjacency with all routers quickly, and it is known in the art that rebooting re-initialize connections (adjacencies/neighbors). However, Li fails to display a predetermined state associated with interface of router. In a routing system which consist of a plurality of communicating routers, Cheng discloses router interfaces that are

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predefined/assigned, hello replies (unicast hello) are provided in responding to transmitted hello, incoming packets are classified as unicast (paragraph 0027, 0261-0274, 0527), Akhtar discloses (col. 3, line 33-62, col. 4, line 20-51, a system for routing traffic in a communication network whereby the architecture includes a plurality of interconnected routers and gatekeepers, utilization of a OSPF routing protocol which allows routers to exchange information about their interfaces, (col. 6, line 9-67) OSPF utilizes "hello" protocol, routers consisting of usable interfaces that are in a specific mode/state prior to utilizing the "hello" protocol, routers interfaces is in a link state (predetermined state) and (col. 6, line 36-45) functional state, router sends "hello" packets to its neighbors, and router receives "hello" packets from neighbors, and routers adjacencies are defined in the contents of the LSA. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to be motivated to implement a router interface being in a predefined mode, supplying unicast hello replies to hello transmissions as displayed by the combined teachings of Cheng and Akhtar with the teachings of Li et al for the purpose of the router receiving notification to send "hello" packets.

Allowable Subject Matter

3. Claims 21-50 are allowed over prior art.
4. Claims 2-4, 6, 8, 9, 11-13, 15 and 17-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
5. The following is a statement of reasons for the indication of allowable subject matter:
Applicant has added additional claims 21-50 that include the limitations of the previously

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indicated objected claims 2-4, 6, 8, 9, 11-13, 15 and 17-20. Although the combined prior art discloses a routing communication system whereby the architecture includes a plurality of communicating neighboring routers, wherein a router of the plurality of routers reboots and sends "hello" messages to neighboring routers, "hello" messages should be sent upon boot up to minimize delays, router unicast "hello" message to neighbors to trigger a neighbor to establish neighborship/adjacency with all routers quickly, it is known in the art that rebooting re-initialize connections (adjacencies/neighbors, a system for routing traffic in a communication network whereby the architecture includes a plurality of interconnected routers and gatekeepers, utilization of a OSPF routing protocol which allows routers to exchange information about their interfaces, OSPF utilizes "hello" protocol, routers consisting of usable interfaces, routers interfaces is in a link state (predetermined state), router sends "hello" packets to its neighbors, and router receives "hello" packets from neighbors, and routers adjacencies are defined in the contents of the LSA, they fail to teach or suggest the predetermined state of a switch/router interface being a waiting state with an asserted preempt flag, neighbor data structure configured to store the preempt flag, and an empty link state update packet multicast over the network in response placement of the interface into the waiting state.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prenell P. Jones whose telephone number is 571-272-3180. The examiner can normally be reached on 9:00-5:30.

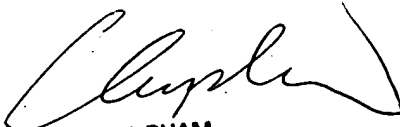
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Prenell P. Jones

September 4, 2005


CHI PHAM
SUPERVISORY PATENT EXAMINE
TECHNOLOGY CENTER 2800 9/1/05